4-246-022-31
030227AMI-H-FM

Micro Hi-Fi Component System
XR-MN5

OPERATING INSTRUCTIONS En (English)

INSTRUCCIONES DE MANEJO E (Español)

COMPACT disc DIGITAL AUDIO

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WARNING

The following caution label is located inside the apparatus.

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAN.

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.

VORSICHT: UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZENSTRÅLING.

VARO!: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KÄTSO SÄTEESEEN.

VARNING: OSYNLIG LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

ADVERSEL: USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.

VIGYÁZAT!: A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSU-GÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

This appliance is classified as a CLASS 1 LASER product.

This label is located on the rear exterior.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.

As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

PRECAUTIONS

On operating voltage

Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.

On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the component, unplug the stereo system and have the component checked by qualified personnel before operating it any further.
- The AC power cord must be changed only at a qualified service shop.

On placement

- Do not place the unit in an inclined position.
- Do not place the unit in locations where it is;
  - Extremely hot or cold
  - Dusty or dirty
  - Very humid
  - Vibrating
  - Subject to direct sunlight.

On heat buildup

- Although the unit heats up during operation, this is not malfunction.
- Place the unit in a location with adequate ventilation to prevent heat build-up in the unit.

If you continuously use this unit at a large volume, the cabinet temperature of the top, side and bottom rises considerable. To avoid burning yourself, do no touch the cabinet.

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player. Should this occur, the system will not operate properly. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any discs.

Notes on discs

- Playable discs on this unit are Audio CDs (CDs), CD-R/CD-RW with audio data (CD-R/RW) and CD-R/CD-RW with MP3 files (MP3-CDs).
- Discs recorded on CD-R/RW drives may not be played back because of scratches, dirt., recording condition or the drive's characteristics.
- CD-R/RW discs which are not finalized at the end of recording cannot be played back.
- Do not attach adhesive label, etc. to either side of a CD-R/RW disc, as doing so may cause malfunction.
- Do not load an unrecorded CD-R/RW disc. The disc may be damaged.
- Do not insert 8-cm (3-inch) discs. Those discs cannot be played on this unit. Moreover, if you insert the discs of that size forcibly, you may not be able to eject it.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.
- DVD, SACD, CD-ROM and VCD cannot be played on this unit.

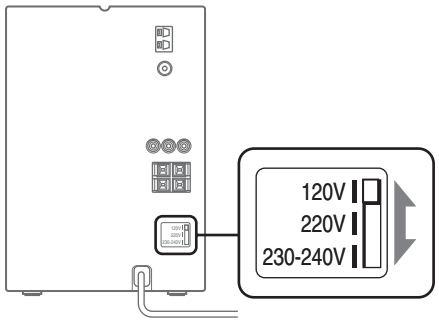
Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

If you have any questions or problems concerning your stereo system, please consult your nearest Aiwa dealer.

IMPORTANT: Check your AC voltage!!

The unit's AC voltage can be switched between 120 V, 220 V and 230 - 240 V. *Before connecting the AC cord*, check that the AC voltage selector, found at the rear of your set, is set correctly to match your local voltage. If necessary, switch voltage with a screwdriver or a similar tool.



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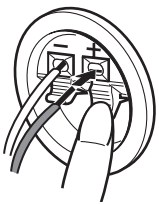
PREPARATIONS

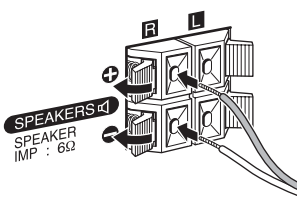
Connection

Plug in the AC power cord to the AC outlet after all other connections are made.

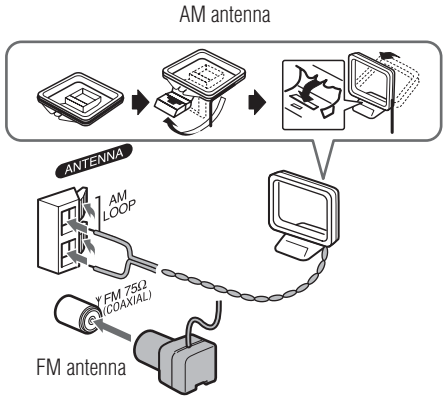
1 Connect the speaker cords to the speakers.
Connect the copper cords to the + terminals and the silver cords to the - terminals.



2 Connect the speakers to the main unit.
Connect the right speaker to the SPEAKERS R terminals and the left to the SPEAKERS L terminals. The copper cords go to the ⊕ terminals.



3 Connect the supplied antennas.
Connect the FM antenna to the FM 75 Ω terminal and the AM antenna to the AM LOOP jack.



4 Connect the AC power cord to an AC outlet.
When the AC power cord is connected to a wall outlet for the first time, DEMO appears in the display.
To deactivate the DEMO, press ECO or i-Bass/DEMO.

Speakers

- Do not short-circuit the ⊕ and ⊖ speaker cord leads.
- Do not leave objects generating magnetism or objects affected by magnetism near the speakers.

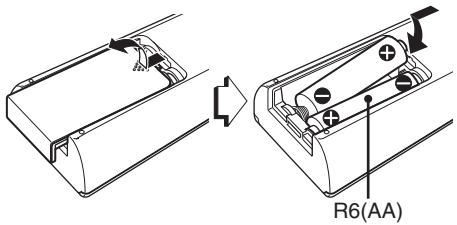
Antennas

Keep antennas away from metallic objects, electrical equipment and cords.

- **FM antenna:** Extend fully and position for the best reception. If reception is poor, connect an optional outdoor antenna to the FM 75 Ω terminal. Note that, when connecting an optional outdoor antenna, use an adaptor as required.
- **AM antenna:** Rotate to find best reception.

Remote commander

Detach the battery compartment lid at the rear of the remote commander and insert two R6 (size AA) batteries with correct polarity.

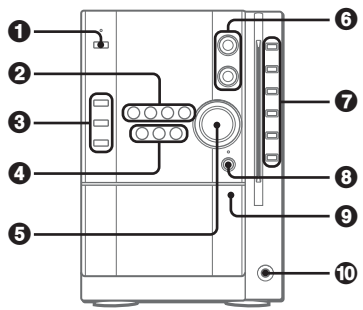


- Replace the batteries with new ones when the operational distance between the remote commander and main unit becomes shorter.
- Remove the batteries if the unit is not going to be used for an extended period of time.
- The remote commander may not operate if it is used under intense sunlight or if its line of sight is obstructed.

PARTS AND CONTROLS

Main unit: front

Refer to the pages indicated in parentheses for details.



❶ **POWER ⏻STANDBY/ON (8)**
Switches the unit on and off (standby).

❷ **▶II CD (8, 10-12)**
Starts and pauses CD play.

TUNER/BAND (8, 14)
Selects tuner function and the tuner band.

◀▶TAPE (REC MUTING) (8, 15, 17)
Starts playback and changes the playback side.
Also used to enter 4-second blank spaces during recording.

AUX (8)
Selects the function of external equipment connected to AUX IN jacks.

❸ **ECO (8)**
Sets the ECO mode on or off.

SYNCHRO REC (16)
Starts recording and CD play simultaneously.

REC START/REC PAUSE (16-18)
Starts and pauses recording.

❹ **■ (10-12, 16, 18)**
CD and Tape: stops playback.
Tuner: clears a preset station.

TUNING ◀◀/I◀◀—, +▶▶I/▶▶ (8,10-12, 14, 15, 19, 20)
CD: skips to a previous or a succeeding track when pressed, searches a track in fast forward or reverse playback when held down.
Tape: rewinds or fast forwards the tape.
Tuner: manually tunes up or down within the band.

❺ **VOLUME (9)**
Adjusts the volume.

❻ **TREBLE (9)**
Adjusts the treble level.

BASS (9)
Adjusts the bass level.

❼ **⏏CD EJECT (10, 12)**
Ejects the disc(s).

CD slot buttons (1-5) (8, 10-12)
Selects a disc slot.
Starts CD play for one desired disc.

❽ **i-Bass/DEMO (4, 9)**
Produces rich and clear low frequency sound.
Switches DEMO on and off while the unit is turned off.

❾ **PUSH EJECT⏏ (15-17)**
Opens or closes the cassette holder.

❿ **PHONES jack**
Plug in optional headphones set with a stereo mini plug (ø3.5 mm). Speaker output is cancelled.

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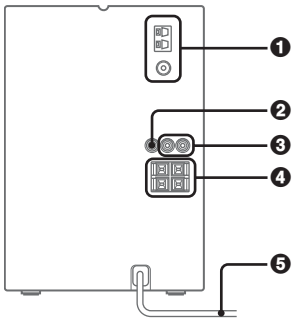
Main unit: rear

Refer to the pages indicated in parentheses for details.



❶ AM LOOP jack and FM 75 Ω terminal (4)
Plug in the supplied AM and FM antennas.

❷ SUB WOOFER jack
Connect optional powered sub woofer with a built-in amplifier to the jack.

❸ AUX IN jacks
Accept analog sound signals from external equipment. Connect external equipment using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack). Refer also to the operating instructions for your equipment.
To switch function to external input, press AUX.
To change a source name in the display of the AUX function.
Hold down AUX and press POWER while the power is on.

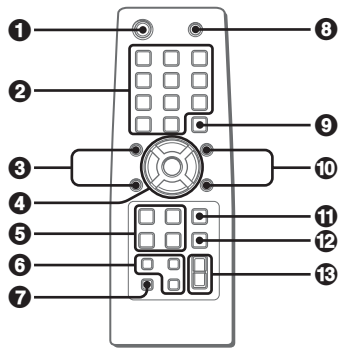
→ AUX → VIDEO → TV →

❹ SPEAKERS terminals (4)
Connect the speaker cords of the supplied speakers.

❺ AC power cord (4)

Remote commander

Refer to the pages indicated in parentheses for details.



Buttons with the same or similar names on the main unit basically have the same function.

❶ **POWER (8)**

❷ **1–10/0, >10 (10-12, 14, 17, 18)**
CD: selects a track of the specified number.
Tuner: tunes in the station with the specified preset number.

The numbered buttons take on these functions when pressed with SHIFT held down:

CLOCK (8)
Selects clock mode.

TIMER (19, 20)
Selects timer mode.

MUTING (9)
To turn off the sound temporarily.

TUNER MODE (14)
Switches between stereo or monaural FM reception.

REV MODE (15, 16, 20)
Selects a reverse mode.

DISC/ALBUM (12)
Selects disc mode or album mode on an MP3-CD.

CD EDIT/CHECK (17, 18)
Selects edited CD recording.

❸ **SHUFFLE/PROGRAM (11)**
Selects shuffle or programed CD playback mode.

REPEAT (11)
Selects repeat CD playback mode.

❹ **ALBUM/PRESET ∧, ∨ (12, 14)**
MP3-CD:Skips to a previous or succeeding album.
Tuner: Tunes in a preset station.

◄◄/I◄◄, ►►I/►► (8, 10-12, 14, 15, 19, 20)

ENTER (8, 14, 19, 20)
Determines the mode.
Stores the received station to preset.

❺ **►II CD (8, 10-12)**

TUNER/BAND (8, 14)

◄► TAPE (8, 15)

AUX (8)

❻ **DISPLAY (10, 12)**
Changes the display in CD playback mode.

DIMMER (8)
Adjusts the display window brightness.

SLEEP (19)
Selects sleep-timer mode.

❼ **SHIFT**
Hold down when pressing a numbered button to change its function to that printed above the number.

❽ **DISC SELECT (10, 12)**
Selects a desired CD slot.

❾ **CLEAR (11, 14, 19, 20)**
CD: Clears a CD program
Tuner: Clears a preset station.

❿ **i-Bass (9)**

TONE (9)
Selects the bass or treble adjusting mode.

⓫ **■ (10-12, 16, 18)**

⓬ **FUNCTION (16-18)**
Switches the active function among TAPE, TUNER, AUX (VIDEO or TV) and CD.

⓭ **VOLUME +,– (9)**

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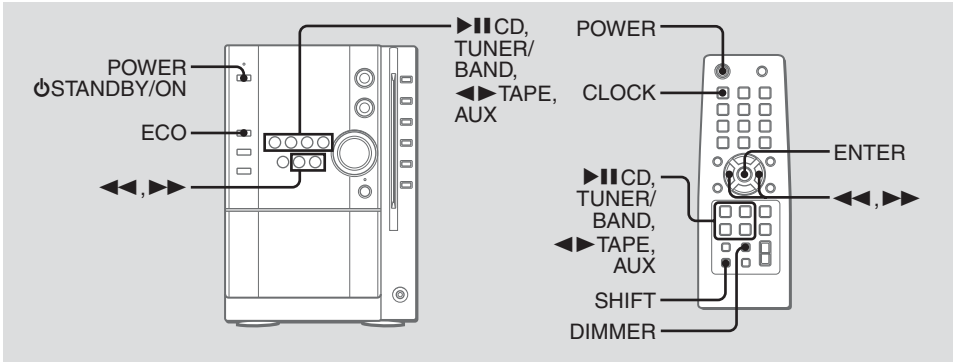

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Power

Turning the unit on
Press POWER ⏻STANDBY/ON (POWER on the remote). Alternatively, press ◀▶TAPE, TUNER/BAND, AUX, ▶❚❚CD or one of the CD slot buttons (1-5). Playback will start automatically if a disc or tape is loaded.

Turning the unit off
Press POWER ⏻STANDBY/ON again.
The unit goes into standby.

Dimmer

The display window brightness can be selected.

Press DIMMER on the remote.
Each press of the button changes between darker and brighter.

ECO mode

Reduces power consumption in standby mode with the following operations.

Press ECO/RDS.
Each press of the button changes the mode as follows;

ECO ON: Power economizing mode is activated.
When the unit turns off, everything on the display clears and only the red indicator above POWER lights to show that the power is being supplied.
ECO OFF: Power economizing mode is cancelled.
When the unit turns off, the clock display appears.

Initial mode is ECO OFF.

Standby power consumption
ECO ON: 0.35 W
ECO OFF: 18 W

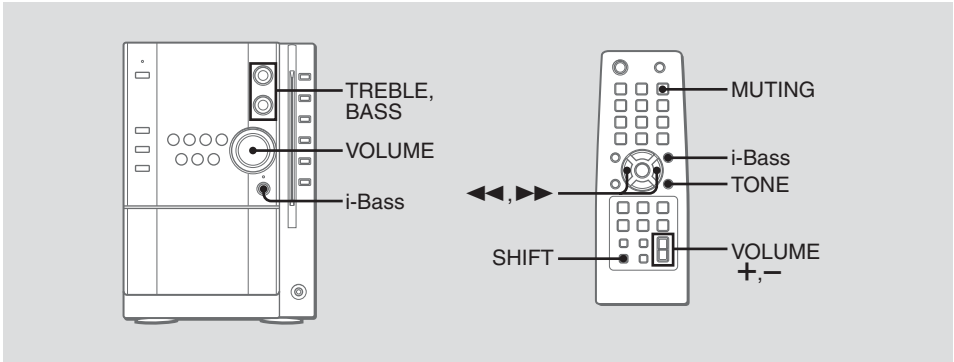
Setting the clock

1. In stop mode, hold down SHIFT and press CLOCK on the remote.
   Go to step 3 when the hour of the clock display flashes.
2. Within 6 seconds, press ENTER.
   The hour flashes in the display.
3. Press ◀◀ or ▶▶ to set the hour, then press ENTER.
4. Press ◀◀ or ▶▶ to set the minute.
   Each press changes the time in 1-minute steps.
5. Press ENTER.
   The time display stops flashing and the clock starts from 00 seconds.

To display the time while the power is on
Hold down SHIFT and press CLOCK on the remote.
The time will be displayed for 6 seconds.

If "- -:- -" appears when the unit is turned off
There has been a power interruption. Reset the clock.

SOUND ADJUSTMENTS



Volume

Turn VOLUME (press VOLUME +,– on the remote).
Adjust from 0 (minimum) to 33 and MAX (maximum).

Muting

Hold down SHIFT and press MUTING on the remote.
Playback continues without sound and "MUTING" appears in the display.

To cancel the Muting, repeat the above or turn up the volume.

Bass and treble

Turn BASS or TREBLE.
When using the remote, press TONE repeatedly to select the bass or treble, then press ◄◄ or ►► within 6 seconds.
Each level can be adjusted from "–5" to "+5".

• If the sound becomes distorted, lower the level.

i-Bass

Produces rich and clear low frequency sound besides BASS effect.

Press i-Bass/DEMO (i-Bass on the remote).
Each press of the button changes the following three levels: "i-Bass OFF", "i-Bass 1", "i-Bass 2" and "i-Bass MAX".

• During recording, you cannot activate or deactivate i-Bass.

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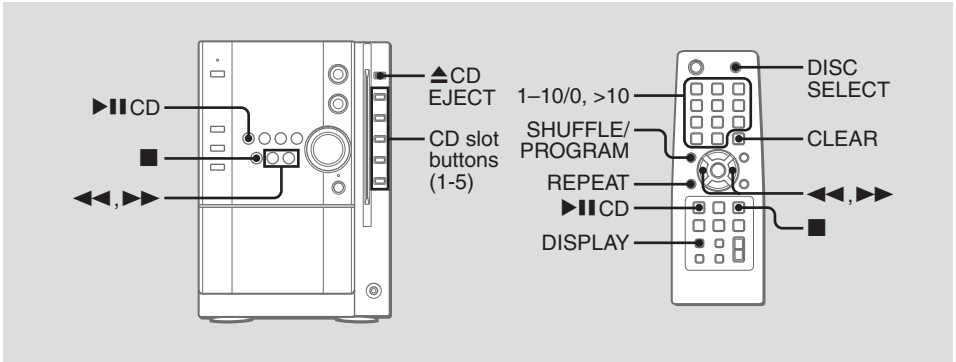

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Notes

- Do not insert 8-cm (3-inch) discs. Those discs cannot be played on this unit. Moreover, if you insert the disc of that size forcibly, you may not be able to eject it.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.
- Do not attach adhesive lavel to either side CD-R/RW discs, as doing so may cause malfunction.
- Do not insert more than one disc into one disc slot.

Playback

This unit plays back finalized CD-R/RW discs as well as audio CDs.

1 Press CD and load disc(s).
Press the CD slot buttons (1-5) and insert a disc with the labeled side right.
To insert more discs, press CD slot buttons (1-5) so that the slot changes, then insert a disc.
After reading the loaded disc, "💿" lights up at the corresponding disc number (1-5) in the display.
Do not insert a disc forcibly.

2 To play all discs, press ▶II CD.
To play one desired disc, press the desired CD slot buttons (1-5).
Playback starts from the first track and the elapsed playback time is displayed.

To insert discs consecutively
You can insert discs consecutively at one time.

1 Hold down ⏏CD EJECT on the main unit for 2 seconds.
When no disc is inserted, "ALL INSERT" will be displayed.
When the disc(s) already inserted, "ALL EJECT" will be displayed and the unit will eject the disc(s) consecutively.
2 Insert a disc consecutively when "CD No Disc" is displayed.
Do not insert a disc forcibly.

To stop playback
Press ■.

To pause playback
Press ▶II CD. Press again to resume playback.

To select a track
Press ◀◀ or ▶▶ repeatedly.

To search (playback in fast forward or fast reverse)
Hold down ◀◀ or ▶▶. Release at the desired point.

To select a disc and a track on the remote
To select a disc
Press DISC SELECT, then press the numbered button (1-5) within 6 seconds.

To select a track
Press the numbered buttons in the following way.
- To select 10th track, press 10/0.
- To select 25th track, press >10, 2 and 5.
- To select 30th track, press >10, 3 and 10/0.

Auto resume playback
When you change the function from CD to another one, or turn the unit off, CD playback is interrupted.
The next time you set the function to CD, the track you interrupted playback will automatically start play from its beginning.

To display the remaining playback time
Press DISPLAY on the remote during playback.
The display changes in the following order.
→ Track number being played and elapsed playing time.
Remaining time of current track.
Remaining time of current disc*
* During programmed playback, remaining time of program playback is displayed.
* During program playback for plural discs, the remaining time is not displayed.
* During shuffle playback for all discs, the remaining time is not displayed.

To eject the disc
Press the desired CD slot buttons (1-5) to select the disc, then press ⏏ CD EJECT.

Shuffle play

In shuffle play mode the unit plays all the tracks on the disc inserted in random order.

1 In stop mode, press SHUFFLE/PROGRAM on the remote repeatedly until the "SHUF" indicator is displayed.

2 Press ▶II CD to start play.

To cancel shuffle play
In stop mode, press SHUFFLE/PROGRAM on the remote repeatedly until the "SHUF" indicator disappears.

Repeat play

In repeat play mode the unit repeatedly plays all the tracks or the current track being played on the discs.

Press REPEAT on the remote repeatedly.
The mode changes as follows:
"↻": Plays all the tracks repeatedly. (up to 5 times)
To play one desired disc, press the desired CD slot button (1-5).
To play all the discs, press ▶II CD.
"↻ 1": Plays one track repeatedly. Select the track with ◀◀ or ▶▶.

To cancel repeat play
Press REPEAT on the remote repeatedly until "↻" and "↻ 1" disappears.

Programed play

Plays back up to 30 selected tracks in programed order.

1 In stop mode, press SHUFFLE/PROGRAM on the remote repeatedly until the "PGM" indicator is displayed.

2 Press DISC SELECT on the remote, then press the numbered buttons (1-5) to select a disc.
Go to the next step when "CD CHANGE" disappears.

3 Press the numbered buttons on the remote to program a track.
The selected track number lights up on the display.
To select the 10th track, press 10/0.
To select the 20th track, press >10, 2 and 10/0.
To select the 35th track, press >10, 3 and 5.
You can select a track by pressing ◀◀ or ▶▶ and then press ENTER.

4 Repeat step 2 and 3 to program other tracks.

5 Press ▶II CD.

- During programed playback, you cannot select a disc or a track with the numbered buttons.
- If the total playback time of the program exceeds 99:59 minutes, or if a track with a track number exceeding 30 is programed, the playing time is displayed as "--:--".
- You cannot program more than 30 tracks. "Full" is displayed.

To clear a previous track
Press CLEAR on the remote. Each time you press the button, a track is cleared from the end of the program.

To clear the entire program
Press ■ in stop mode.

To add a track to the program
Repeat steps 2 and 3 before starting playback. The track is added to the end of the program.

To cancel programed play
Press SHUFFLE/PROGRAM repeatedly until "PGM" disappears.
- The program content is retained even if the program canceled or after programed playback finishes. The same program plays back if you carry out step 1 and 5.

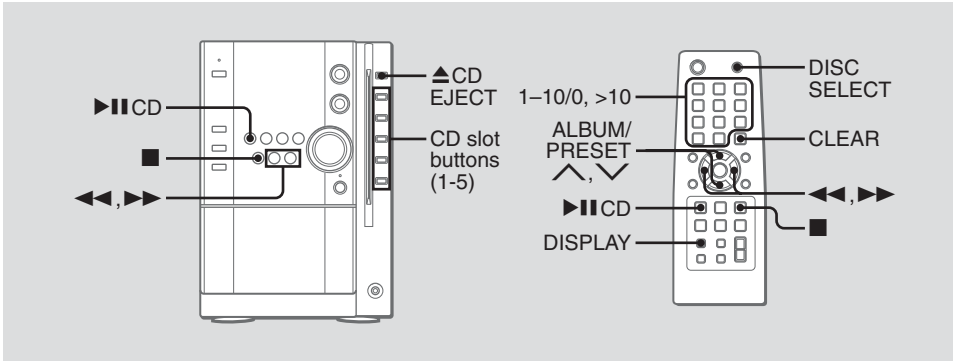
When transporting the unit
Please carry out procedures below to prevent the breakage of CD mechanism.

1 Eject all the CDs and the tapes.

2 Press POWER⏻STANDBY/ON (POWER on the remote) to turn the unit off.

3 Disconnect the AC power cord from the wall outlet.

Notes on CDs
- Do not tilt the unit with a disc inserted.
- Discs recorded on CD-R/RW drives may not be played back because of scratches, dirt, recording condition or the drive's characteristics.
- CD-R/RW discs which are not finalized at the end of recording cannot be played back.
- Do not load an unrecorded CD-R/RW disc. The disc may be damaged.



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Playback

This unit plays back MP3-CDs: discs recorded with MP3 tracks (files). Basic operations for MP3-CDs are mostly the same as those in "CD OPERATIONS". Before playing an MP3-CD, also refer to "Descriptions of MP3" for the details of MP3.

Switching between the disc mode and the album mode

Hold down SHIFT and press DISC/ALBUM on the remote.
In disc mode, there will be no indication in the display.
In the album mode, "ALBM" lights up in the display.
In the disc mode, all the tracks on the disc can be played.
In the album mode, only the tracks within a selected album can be played.

1 Press CD and load disc(s).
Press the CD slot buttons (1-5) and insert a disc with the labeled side right.
To insert more discs, press CD slot buttons (1-5) so that the slot changes, then insert a disc.
After reading the loaded disc, "💿" lights up at the corresponding disc number (1-5) in the display.
Do not insert a disc forcibly.

2 To play all discs, press ▶II CD.
To play one desired disc, press the desired CD slot buttons (1-5).
Playback starts from the first track, and the elapsed playback time is displayed.
In the album mode, playback starts from the first track of the first album and it will stop when reaching the end of the last track of the album.

To stop playback

Press ■.

To select an album

Press PRESET/ALBUM ∧ or ∨ on the remote.

To select a track

Press ◀◀ or ▶▶ repeatedly.

To select a disc and a track on the remote

To select a disc
Press DISC SELECT, then press the numbered button (1-5) within 6 seconds.
To select a track
Press the numbered buttons in the following way to select a track.

(when the album has less than 100 tracks)
- To select the 7th track, press 7.
- To select the 10th track, press 10/0.
- To select the 25th track, press >10, 2 and 5.

(when the album has more than 99 tracks)
- To select the 25th track, press >10, 10/0, 2 and 5.
- To select the 100th track, press >10, 1, 10/0 and 10/0.
- To select the 147th track, press >10, 1, 4 and 7.

Auto resume playback

When you change the function from CD to another one, or turn the unit off, CD playback is interrupted.
The next time you set the function to CD, the track you interrupted playback will automatically start play from its beginning.

To perform Shuffle, Repeat and Programmed playback for MP3-CDs

The procedures of Shuffle, Repeat and Programmed playback for MP3-CDs are the same as those in "CD OPERATIONS". Follow the steps described there.

- In the album mode, only the track within a selected album can be selected and played.

To display the title of the album and track in the display

Press DISPLAY on the remote during playback.
The display changes in the following order:

→ Track number being played and elapsed playing time
Track(file) name and album name* being played
Track title* and artist name* being played

* Album name, track title and artist name are not displayed if they are not registered.

To eject the disc

Press the desired CD slot buttons (1-5) to select the disc, then press ⏏ CD EJECT.

Descriptions of MP3

An MP3 file stores audio data compressed using MPEG1/2, the audio layer-3 file-coding scheme.

In this manual, CDs, CD-R discs and CD-RW discs are all referred to as "discs". We refer to what are called "folder" and "file" in PC terminology as "album" and "track".

Notes on playing MP3 files

- An MP3 track must be recorded on a disc in the format compliant with ISO 9660. Note, however, that the unit may not play tracks in the order they were recorded.
- The maximum allowable number of tracks and albums in a disc are as follows:
  - number of tracks: 255
  - number of albums: 255
- The maximum allowable depth of nested albums is 8.
- It may take 30 seconds or more before the unit can start play of MP3 tracks, depending on the number of recorded tracks and the complexity of the album tree.
- The unit cannot play MP3 tracks recorded using a packet writing utility.
- The unit can play MP3 tracks having a file extension ".mp3".
- If you play a non-MP3 track that has the ".mp3" file extension, you may hear some noise.

Notes on display indications during play

- Up to 8 characters are displayed for the title of an album or a track. If ID3TAG version 1.X was applied to record additional information for an MP3 track, up to 10 characters showing track title is displayed. However, if information of ID3TAG version 2.X are also recorded in the same MP3 track, the track title of ID3TAG is not displayed. Characters other than uppercase letters ("A" to "Z") and numerals ("0" to "9") may not be displayed correctly.
- The elapsed playing time may not be displayed correctly for MP3 tracks.

Terminology

- ISO 9660

  ISO stands for the "International Organization for Standardization". ISO 9660 determines the file structure for the CD-ROMs. This unit can play MP3 files recorded in the format compliant with ISO 9660.
- Nesting of folders (albums)

  To organize data files stored in a PC, you can store related files in a folder. A folder can contain other folders as well as files. For example, folder A can contain folder B, and folder B can contain folder C; this is called "nesting of folders". The maximum depth of nested folders, allowed by ISO 9660, is 8.
- Writing utilities

  There are 3 utilities used to record data on a disc.

  1. DAO (Disc At Once) utility

     All data to be written must be prepared in advance and written onto a disc from the beginning to the end in one operation. No data can be added to a disc on which data were already written with DAO utility.
  2. TAO (Track At Once) utility

     Data are written onto a disc track by track. Data can be added to a disc on which data were written with TAO utility.
  3. Packet writing utility

     Tracks are divided into smaller pieces while being recorded, depending on the size of available spaces on the disc. Data can be added to a disc on which data were written with packet writing utility.

     This unit can play MP3 discs recorded using DAO and TAO utilities.
- ID3TAG

  ID3TAG determines the data format for the text to be added to an MP3 file, mainly used to indicate a track title or an artist's name, etc.

Notes on creating MP3 discs

- When converting audio data to MP3

  The unit supports MP3 files with a sampling frequency of 16, 22.05, 24, 32, 44.1 or 48 kHz.

  To enjoy high sound quality, we recommend storing MP3 files with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps. The assured bit rate range for sound quality on the unit is 8 kbps to 320 kbps. If an MP3 files stored with a bit rate beyond that range is played back, sound quality is not guaranteed and noise may be generated.
- When creating MP3 discs

  Do not store more than 255 albums in a disc. Also, keep the total number of albums and tracks 255 or less in a disc.
- To play tracks in the order they were recorded

  1. Use a writing software capable of recording MP3 tracks (files) in numerical and alphabetical order. For details on using the software, refer to the operating instructions supplied with the software.
  2. Use only one album. (Do not create a sub-album within an album.)
  3. Include a two- or three- digit number at the beginning of each album or track name so that the albums and tracks are played in order.

     <example of recommended names>

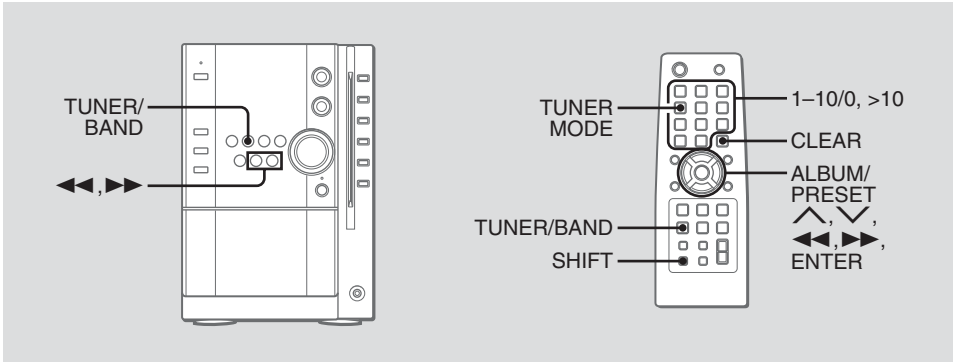
     01XXXXX.mp3
     02XXXXX.mp3
     03XXXXX.mp3
     04XXXXX.mp3
     05XXXXX.mp3

     <example of names not recommended>

     1XXXXX.mp3
     5XXXXX.mp3
     10XXXXX.mp3
     15XXXXX.mp3
     20XXXXX.mp3

     (Numbers at the beginning have different digit number. The tracks will not be played in this order but played in the order of "1", "10", "15", "20" and "5".)

En



En

Manual tuning

1 Press TUNER/BAND repeatedly to select a band.
The unit switches to the tuner from any other function and alternates between FM and AM.

2 Press ◀◀ or ▶▶ repeatedly to tune in a station.
"TUNE" is displayed when a station is tuned in.
"((◎))" is displayed for FM stereo reception.

To search for a station automatically (Auto search)
Hold down ◀◀ or ▶▶.
The unit searches for a station and stops at reception.
To stop the search manually, press ◀◀ or ▶▶.

• Auto search may not stop at stations with weak signals.

Preset tuning

Preset up to 32 of your favourite stations and tune them in directly.

Presetting stations

1 Tune in the desired station.

2 Press ENTER on the remote to store the station.
The preset number, beginning from "1" flashes in the display.

3 Repeat steps 1 and 2 to preset other stations.
The next station will not be stored if a total of 32 preset stations have already been stored. ("FULL" is displayed.)

• If power is interrupted for more than approximately 12 hours, all settings stored in memory after purchase need to be reset.

Tuning in preset stations

1 Select the band.

2 Press ALBUM/PRESET ∧, ∨ on the remote repeatedly.
With each press, the station with the succeeding or preceding preset number is tuned in.
You can tune in the desired preset station directly by pressing the numbered buttons on the remote.
- To select preset number 7, press 7.
- To select preset number 12, press >10, 1 and 2.

To clear a preset station
1 Tune in the station by preset tuning.
2 Press CLEAR, then press ENTER on the remote within 6 seconds.
Preset station numbers in the band which are higher than the cleared number decrease by one.

Adjustments

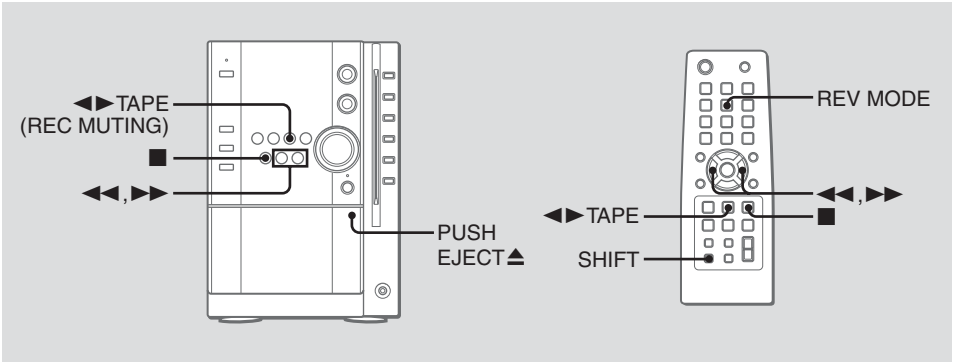
To switch to monaural FM reception
Hold down SHIFT and press TUNER MODE on the remote so that "TUNER MONO" is displayed.
To cancel, repeat the above so that "AutoSTEREO" is displayed.

Tip:
When FM stereo reception is poor, switching to monaural reduces noise.

To switch the AM tuning interval
The default setting of the AM tuning interval is 9 kHz/step. If you use this unit in an area where the frequency allocation system is 10 kHz/step, change the tuning interval.
Hold down TUNER/BAND and press POWER on the main unit.

Tip:
When the AM tuning interval is changed, all preset stations are cleared.

TAPE PLAYBACK

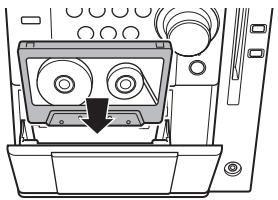


Playback

Use only type I (normal) tapes.

1 Press PUSH EJECT⏏ to open the cassette holder.

2 Insert the tape.
Insert with the exposed side down, and press PUSH EJECT⏏ to close the cassette holder.



3 Press ◄►TAPE (REC MUTING) (◄►TAPE) to start play.

Reading the indicators
►: The front side is being played (forward).
◄: The back side is being played (reverse).

To select a reverse mode
Hold down SHIFT and press REV MODE on the remote repeatedly.
The mode changes as follows;
"⇄" : Plays one side only
"⇉" : Plays from the front side to the back sides once.
"(⇄)" : Plays both sides repeatedly

To stop playback
Press ■.

To change the playback side
Press ◄►TAPE (REC MUTING) (◄►TAPE) in playback mode.

To rewind or fast forward
Press ◄◄ or ►►.

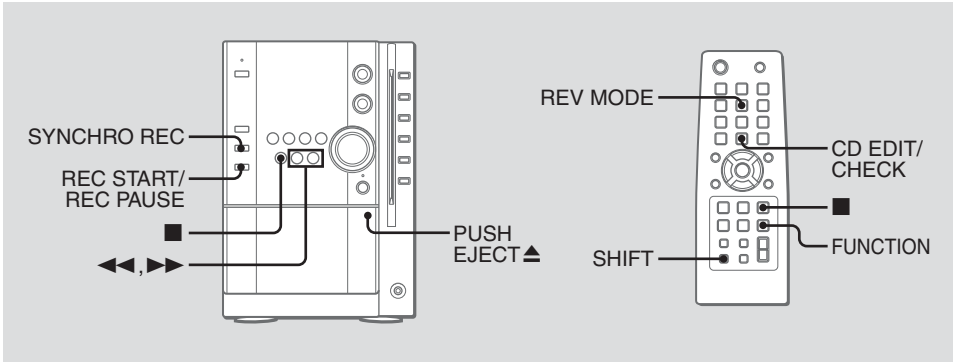
To reset the tape counter
Press ■ in stop mode, and the tape counter in the display is reset to "0000".
Opening and closing the cassette holder will also reset the tape counter.

To eject the tape
Press PUSH EJECT⏏ after the deck stops completely.

Notes on cassettes

- Use of a tape longer than 90 minutes is not recommended since they are extremely thin and easily damaged. If you should use it, do not change the tape operations such as play and stop frequently.
- Take up any slack in the tape with a pencil or similar tool before use. Slack tape may get entangled in the deck mechanism and become damaged.

En



En

To record a CD

Use only type I (normal) tapes.

1 PressPUSH EJECT⏏ to open the cassette holder.

2 Insert the recordable tape.
Insert with the exposed side down, and the side to be recorded on first facing out from the unit. Press PUSH EJECT⏏ to close the cassette holder.

3 Hold down SHIFT and press REV MODE on the remote repeatedly to select the reverse mode.
To record on one side only, select ⇄.
To record on both sides, select ⇄.
If selecting "⇄" mode in this step, the reverse mode changes to "⇄" when starting recording.

4 Press FUNCTION on the remote repeatedly to select the CD function, and load the disc.
To record only one track, start play of the track.

5 Press SYNCHRO REC.
The unit enters the recording pause mode, and "REC" indicator flashes on the display.

6 Press REC START/REC PAUSE to start recording.
"REC MUTING" flashes in the display for 10 seconds and recording starts.
When only a track is to be recorded, CD playing returns to the beginning of the current track and recording starts.

- Volume or tone adjustment(s) (except i-Bass) does not affect recording.
- i-Bass tone adjustment does affect recording.
- "No Tab" is displayed if you attempt to record a tape with the tab broken off.

To record a selected set of tracks from a CD
Program the desired tracks (see "Programed play" on page 11) and then press SYNCHRO REC.

To record radio programs and external equipment

Use only type I (normal) tapes.

1 PressPUSH EJECT⏏ to open the cassette holder.

2 Insert the recordable tape.

3 Hold down SHIFT and press REV MODE on the remote repeatedly to select the reverse mode.

4 Prepare the source.
To record radio programs, press TUNER/BAND and tune in the desired station.
To record from connected external equipment, press AUX and prepare the equipment.

5 Press REC START/REC PAUSE twice to start recording.
When recording input from connected equipment, manually start playback of the source.
Recording from CDs can also be made in this way.
To do that, start the playback of the CD in step 4.

To stop recording
Press ■.

To pause recording (only for TUNER or AUX source)
Press REC START/REC PAUSE. Press again to resume.

To record a 4-second blank space (only for TUNER or AUX source)

Inserting 4-second blank spaces may help you locate the beginning of the track on other equipment with the "Music Sensor" function.

1 Press ◄► TAPE (REC MUTING) on the unit during recording or in recording pause mode.
"REC MUTING" flashes in the display for 4 seconds (a blank space is added) and then the unit enters recording pause mode.
2 Press REC START/REC PAUSE to resume recording.

To record a blank space shorter than 4 seconds, press ◄► TAPE (REC MUTING) again while "REC MUTING" flashes.
To record a blank space longer than 4 seconds, press ◄► TAPE (REC MUTING) again after the unit enters recording pause mode.
Each time the button is pressed, a 4-second blank space is added.

To erase a tape

1 Insert the tape. Set the tape to the desired point if needed.
2 Press AUX.
If optional equipment is connected to the AUX IN jacks, turn it off.
3 Press REC START/REC PAUSE twice.

Edited CD recording

AI Edit Recording

Preparation

Prepare a tape that is longer than the CD length.

When recording a whole CD, AI Edit Recording takes the length of your tape into account and rearranges the recording order of the tracks if necessary, so that no track is cut short at the end of the side.
(AI: Artificial Intelligence)

- *Recording cannot start from a point halfway in the tape.*
- *AI Edit Recording cannot be used with MP3-CDs.*
- *AI Edit Recording cannot be used with discs containing more than 30 tracks.*

1 Insert the recordable tape.

2 Press FUNCTION on the remote to select the CD function, and load disc(s).

3 Hold down SHIFT and press CD EDIT/CHECK on the remote in stop mode.
"AI EDIT" and "AI C--00" is displayed.

4 Press the desired CD slot buttons (1-5) to select a disc.
When using the remote, press DISC SELECT then press the numbered button (1-5) within 6 seconds.

5 Press the numbered buttons on the remote to enter the length of the recordable tape.
10 to 99 minutes can be specified.
- For a 60-minute tape press 6 and 10/0.
In a few seconds, the unit determines the tracks to be recorded for each side.
• ◄◄ or ►► can also be used to specify tape length.

6 Press REC START/REC PAUSE once to start recording.
The tape is rewound to the beginning of the side facing out from the unit, "REC MUTING" flashes on the display and the lead segment is played through for 10 seconds, and recording starts.
When recording on the side facing out from the unit (side A) finishes, recording on the opposite side (side B) starts.

En

Programmed Edit Recording

As you program the CD tracks to record, Programmed Edit Recording displays the remaining recording time for each side of the tape, so you can easily select a set of desired tracks within the length of your tape.

- *Recording cannot start from a point halfway in the tape.*
- *Programmed Edit Recording cannot be used with MP3-CDs.*
- *You cannot program more than 30 tracks.*
- *You cannot program a track with a track number larger than 30.*

1 Insert the recordable tape.

2 Press FUNCTION on the remote to select the CD function, and load disc(s).

3 Hold down SHIFT and press CD EDIT/CHECK twice on the remote in stop mode.
"PGM EDIT" and "PRGM C--00" is displayed.

4 Press the desired CD slot buttons (1-5) to select a disc.
When using the remote, press DISC SELECT then press the numbered button (1-5) within 6 seconds.

5 Press the numbered buttons on the remote to enter the length of the recordable tape.
10 to 99 minutes can be specified.
- For a 60-minute tape press 6 and 10/0.
• ◄◄ or ►► can also be used to specify tape length.

6 Press the numbered buttons on the remote to select the first track to be recorded on side A.
-To select the 25th track, press >10, 2 and 5.
-To select the 11th track, press >10, 1 and 1.

7 Repeat step 6 to select the rest of the tracks for side A.
The remaining recording time of side A is displayed. You cannot select a track with a longer playing time.

8 Hold down SHIFT and press CD EDIT/CHECK on the remote to switch to side B and select the tracks for the side.

9 Repeat step 6 to select the tracks for side B.

10 Press REC START/REC PAUSE once to start recording.
The tape is rewound to the beginning of the side facing out from the unit, "REC MUTING" flashes on the display and the lead segment is played through for 10 seconds, and recording starts.
When recording on the side facing out from the unit (side A) finishes, recording on the opposite side (side B) starts.

To stop recording
Press ■. Recording and CD playback stop simultaneously.

To check the program
1 Before recording, hold down SHIFT and press CD EDIT/CHECK on the remote to select side A or B.
2 Press ◄◄ or ►► repeatedly. The track number and program number are displayed in succession.

To change the program of each side
Hold down SHIFT and press CD EDIT/CHECK on the remote to select side A or B, and press ■ to clear the program for the selected side. Then, select tracks again.

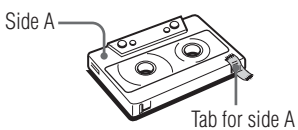
To clear the edit program
Press ■ twice.

Notes on AI / Programed Edit Recording

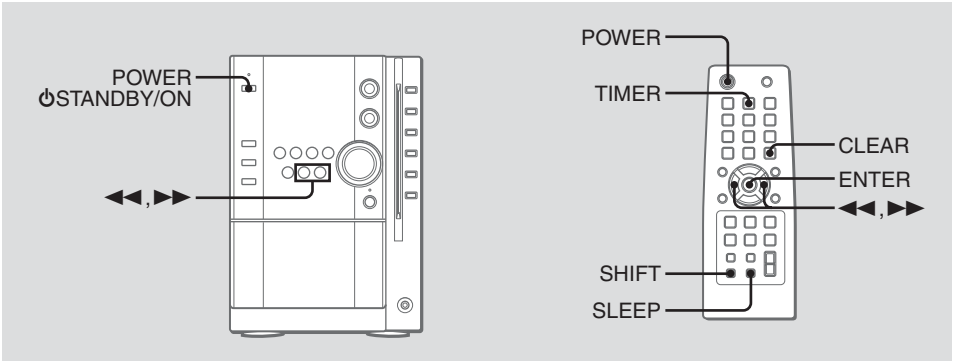
MP3-CDs cannot be used for AI / Programed Edit Recording.

To prevent accidental erasure

Remove the plastic tab of the cassette tape with a screwdriver or other pointed tool. To record on the tape again, cover the detection slot with adhesive tape.



TIMER OPERATIONS



Sleep timer

Turns off the unit automatically after a specified time.

Press SLEEP on the remote.
"SLEEP" flashes in the display.
With each press, the timer duration changes as follows:

AUTO → 90 → 80 → OFF ← 10...70 ←

If you set to "AUTO", the unit turns off automatically when the current CD or tape finishes playback or elapsed 100 minutes.

To check the remaining time until the unit turns off
Press SLEEP on the remote. The remaining time is displayed for 6 seconds.

To cancel the sleep timer
Press SLEEP on the remote repeatedly so that "OFF" is displayed.

Timer playback

Turns on the unit at a specified time for the specified duration. Make sure the clock is set correctly.

1 Press VOLUME +, — to set the volume level.

2 Hold down SHIFT and press TIMER on the remote repeatedly so that "🕘" and "TIMER PLAY" is displayed.

3 Within 6 seconds, press ENTER.
"ON TIME" is displayed.

4 Press ◀◀ or ▶▶ to set the timer start hour, and press ENTER.

5 Press ◀◀ or ▶▶ to set the minute, and press ENTER.
"OFF TIME" is displayed.

6 Set the time to stop playback by following the same procedures as steps 4 and 5.

7 Press ◀◀ or ▶▶ to select the source (CD, TAPE and TUNER), and press ENTER.

8 Prepare the source.
To play CD, load disc(s).
To play a tape, insert the tape.
To play the radio, select the band and tune in the desired station.

9 Press POWER ⏻STANDBY/ON (POWER) to turn the unit off.
"🕘" remains in the display to indicate the timer standby mode (when ECO mode is deactivated).
At timer-on time, the unit turns on and plays the selected source. After the specified timer-activated duration, the unit turns off again.

- To stop timer setting in steps 4 to 6, press CLEAR. Timer standby mode is also cancelled.
- The timer playback is not activated when the clock is not set. ("SET NG" is displayed.)
- Timer playback will not begin unless the unit is turned off first.
- Timer playback for AUX function is not possible.

En

Timer recording

Timer recording is available only for TUNER sources.

1 Prepare the recording destination.
Insert the recordable tape in tape deck.

2 Hold down SHIFT and press REV MODE on the remote to select a reverse mode.
To record on one side only, select ⇄.
To record on both sides, select ⇄.
If selecting "(⇄)" mode in this step, the reverse mode changes to "⇄" when starting recording.

3 Hold down SHIFT and press TIMER on the remote repeatedly so that "🕘" and "TIMER REC" are displayed.

4 Within 6 seconds, press ENTER.
"ON TIME" is displayed.

5 Press ◄◄ or ►► to set the timer start hour, and press ENTER.

6 Press ◄◄ or ►► to set the minute, and press ENTER.
"OFF TIME" is displayed.

7 Set the time to stop playback following the same procedure as steps 5 and 6.

8 Select the band and tune in the desired station.

9 Insert a recordable tape and then turn the unit off.
"🕘" remains in the display to indicate the timer standby mode (when ECO mode is deactivated).
At timer-on time, the unit turns on and records the selected source. After the specified timer-activated duration, the unit turns off again.

- To stop timer setting in steps 3 to 6, press CLEAR.
Timer standby mode is also cancelled.
- The timer recording is not activated when the clock is not set. ("SET NG" is displayed.)
- The timer recording will not begin unless the unit is turned off first.

To check the timer setting

Hold down SHIFT and press TIMER on the remote repeatedly so that "TIMER PLAY" or "TIMER REC" appears in the display.
The timer-on time, the time to stop playback and the source are displayed for 6 seconds.

To change the timer setting

Reset the timer again.

To cancel the timer

Hold down SHIFT and press TIMER on the remote repeatedly until "TIMER OFF" is displayed. "🕘" and "TIMER REC" disappear from the display.

Tip:

Your timer setting is retained even if the timer is cancelled. Next time the timer is activated, you can change your previous setting, or simply use the same setting again.

Notes

- The timer playback performs every day at the specified time unless you cancel it.
- You cannot set the same time for timer-on time and timer-off time. "SET NG" is displayed if you do that. In this case, reset the time.
- The timer playback will not begin unless the unit is turned off first.

Care and maintenance

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet
Use a soft and dry cloth. If the unit surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

To clean the tape heads
Dirty tape heads cause sound deterioration. After every 10 hours of use, clean the tape heads by using a commercially available dry-type or wet-type head cleaning cassette separately. Refer to the instructions of the cleaning cassette.

To demagnetize the tape heads
Use a demagnetizing cassette after every 20 to 30 hours of use. Refer to the instructions of the demagnetizing cassette.

Care of CDs
When a CD becomes dirty, wipe it from the centre out with a cleaning cloth. Please do not use solvents. After playing a CD, store it in its case. Do not expose a CD to direct sunlight or heat sources.

Care of tapes
Store tapes in their cases after use. Do not leave tapes near magnets, motors, television sets, or any source of magnetism. Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

Troubleshooting

If your unit fails to perform properly, check the following guide and the relevant sections of the Operating Instructions.
First check that the AC power cord and the speakers are connected correctly and firmly.
Should any problem persist, consult your nearest Aiwa dealer.

General

There is no sound
- Are the speakers and AC power cord connected properly?
- Turn VOLUME clockwise and hold.
- The headphones are connected.
- Insert only the stripped portion on the speaker cord into the SPEAKERS terminal. Inserting the vinyl portion of the speaker cord will obstruct the speaker connections.

The unit shut off suddenly
- Possibly a short circuit in the speaker terminals. Disconnect the AC power cord from the AC outlet and reconnect the speaker cords correctly.

The display blacks out when the unit is turned off.
- ECO is mode set to on. (see "ECO mode" on page 8)

Erroneous display
- Reset the unit. (See "Resetting the unit" on page 22.)

There is severe hum or noise.
- A TV or VCR is placed too close to the stereo system. Move the stereo system away from the TV or VCR.

The clock indication does not show the correct time.
- A power interruption occurred. Set the clock and timer settings again.

The clock setting/radio presetting/timer is cancelled.
- The AC power cord is disconnected or a power failure occurs longer than half a day.
  Redo the following:
  - "Setting the clock" on page 8
  - "Preset tuning" on page 14
  If you have set the timer, also redo "Timer playback/recording" on page 19 and 20.

The timer does not function.
- Set the clock correctly.

The remote does not function.
- There is an obstacle between the remote and the unit.
- The remote is not pointing in the direction of the unit's sensor.
- The batteries have run down. Replace the batteries.

Tuner

Poor radio reception
- Check antenna connection. Adjust the antenna to find the best reception.
- For FM, move the FM antenna to reduce the noise.
- For AM, re-rotate the AM antenna to reduce the noise.
- Move the unit and antenna away from other electric appliances and cords.

CD player

The sound drops out.
- The lens is dirty. Clean it with a commercially available blower.

The CD does not play.
- The CD is not lying flat in the disc compartment.
- The CD is dirty.
- The CD is inserted label side down.
- Moisture condensation has built up. Remove the CD and leave the system turned on for about an hour until the moisture evaporates.

Tape deck

The tape does not record.
- No tape in the deck.
- The tab has been removed from the cassette tape.
- The tape has reeled to the end.

The tape does not record nor play or there is decrease in sound level.
- The heads are dirty. Clean them (see "To clean the tape heads" on page 21).
- The record/playback heads are magnetized. Demagnetize them (see "To demagnetize the tape heads" on page 21).

The tape does not erase completely.
- The record/playback heads are magnetized. Demagnetize them (see "To demagnetize the tape heads" on page 21).

There is excessive wow or flutter, or the sound drops out.
- The capstans or pinch rollers are dirty. Clean them (see "To clean the tape heads" on page 21).

Noise increases or the high frequencies are erased.
- The record/playback heads are magnetized. Demagnetize them (see "To demagnetize the tape heads" on page 21).

Poor tape sound.
- Use TYPE I (normal) tapes.

Speakers

Sound comes from one channel or unbalanced left and right volume occurs.
- Check the speaker connection and speaker placement.

Sound lacks bass.
- Check that the speaker's ⊕ and ⊖ terminals are connected correctly.

Resetting the unit

If an unusual condition occurs in the display window or the cassette deck, reset the unit as follows:

1 Press POWER to turn off the power.
  If the power cannot be turned off, disconnect the AC power cord, then plug it in again.
2 Hold down ■ and press POWER on the main unit.
  Everything stored in memory after purchase is cleared.

Specifications

MAIN UNIT CX-LMN5

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	16.8 dBf
FM antenna terminal	75 Ω (unbalanced)
AM tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1710 kHz (9 kHz step)
AM usable sensitivity	350 µV/m
AM antenna	Loop antenna

AMPLIFIER

Power output	Rated: 64 W + 64 W (1 kHz, T.H.D. 1 %, 6 Ω) Reference: 80 W + 80 W (1 kHz, T.H.D. 10 %, 6 Ω)
Total harmonic distortion	0.04 % (40 W, 1 kHz, 6 Ω, DIN AUDIO)
Input	AUX IN: 1.4 V
Outputs	SPEAKERS: 6 Ω or more PHONES: 32 Ω or more

CASSETTE DECK

Track format	4 tracks, 2 channels stereo
Frequency response	100 Hz – 10000 Hz
Recording system	AC bias
Heads	Recording/playback × 1, erase × 1

CD PLAYER

Laser	Semiconductor laser (λ = 800 nm) Emission duration: continuous
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

SPEAKER SYSTEM SX-LMN5

Speakers system	2 way, Bass-reflex type (magnetic shielded)
Speaker units	Woofer: 140 mm cone type Tweeter: 25 mm dome type
Nominal Impedance	6 Ω
Dimensions (w/h/d)	Approx. 200 × 277 × 279 mm
Mass	Approx. 3.6 kg net per speaker

GENERAL

Power requirements	120 V/220 V/230 - 240 V AC, 50/60 Hz
Power consumption	85 W
Power consumption in standby mode	with ECO mode on: 0.35 W with ECO mode off: 18 W
Dimensions (w/h/d)	Approx. 190 × 277 × 353 mm
Mass	Approx. 6.8 kg
Supplied accessories:	FM antenna (1) AM antenna (1) Speaker cords (2) Remote commander (1) Batteries (2)

Specifications and external appearance are subject to change without notice.

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